```
3.1>>ODD OR EVEN
echo "ODD OR EVEN"
echo -n "Enter 'n' >> "
read n
if [ $((n%2)) -eq 0 ]; then
echo "$n is EVEN"
else
echo "$n is ODD"
fi
```

## **OUTPUT**

```
ubuntu@administrator-hcl-desktop:~/gopikrishna Q =
administrator@administrator-hcl-desktop:~/gopikrishna$ gedit odorev.sh
administrator@administrator-hcl-desktop:~/gopikrishna$ chmod +x odorev.sh
administrator@administrator-hcl-desktop:~/gopikrishna$ ./odorev.sh
ODD OR EVEN
Enter 'n' >> 4
4 is EVEN
administrator@administrator-hcl-desktop:~/gopikrishna$ ./odorev.sh
ODD OR EVEN
Enter 'n' >> 3
3 is ODD
administrator@administrator-hcl-desktop:~/gopikrishna$ [
```

## 3.2>>FACTORIAL OF A NUMBER

## **OUTPUT**



```
3.3>>FIBONACCI SERIES
echo "FIBONACCI SERIES"
n1=0
n2=1
n3=\$((n1+n2))
echo -n "Enter Limit >> "
read lim
echo -n "FIBONACCI SERIES upto $lim >> "
echo -n "$n1 $n2"
for ((i=3; i \le \lim; ++i))
      echo -n " $n3"
      n1=\$n2
      n2 = n3
      n3=\$((n1+n2))
done
echo
```

## **OUTPUT**

```
ubuntu@administrator-hcl-desktop:~/gopikrishna Q =

administrator@administrator-hcl-desktop:~/gopikrishna$ gedit fib.sh
administrator@administrator-hcl-desktop:~/gopikrishna$ chmod +x fib.sh
administrator@administrator-hcl-desktop:~/gopikrishna$ ./fib.sh
FIBONACCI SERIES
Enter Limit >> 10
FIBONACCI SERIES upto 10 >> 0 1 1 2 3 5 8 13 21 34
administrator@administrator-hcl-desktop:~/gopikrishna$
```